

WHAT IS CLAIMED IS:

1. Procedure for detecting various colors on a surface (2),
comprising the steps of: detecting at least one color on a surface; detecting the
5 distance between a color sensor device (1) and surface (2); and determining the
proper color value of surface (2), depending on the distance of surface (2) from
the sensor device (1).
2. Procedure according to Claim 1, further comprising the
10 steps of: having the sensor device (1) emit white light to the surface (2);
reflecting light from the surface; and spectrally splitting such reflected light by a
filter (5) prior to being received by a sensor receiver (11).
3. Procedure according to Claim 2, wherein emitted light is
15 temporally sequential light with at least three different spectral properties, and the
reflected light is received by the sensor receiver (11).
4. Procedure according to Claim 2, wherein the intensity of
the light emitted to surface (2) is altered according to correction values dependent
20 on the distance of surface (2) from sensor device (1).
5. Procedure according to Claim 2, wherein correction values
are determined for the color values from the determined distance between surface
(2) and sensor device (1).
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6. Sensor device (1), for detection of various colors at a
surface, comprising: at least one sensor receiver (11) for determination of a
change in distance of sensor device (1) from the surface (2, 2').
7. Sensor device (1) according to Claim 6, further including a
30 distance sensor for determination of the distance between sensor device (1) and
surface (2).

8. Sensor device (1) according to Claim 7, further including an allocation table (10) for allocation of correction values to distances detected by sensor device (1).

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9. Sensor device (1) according to Claim 6, said receivers (11) has multiple outputs, whose output signals are evaluated simultaneously with the determination of the luminous intensity and the distance between surface (2) and sensor device (1).

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10. Sensor device (1) according to Claim 6 further including a light source (6) emitting light to the surface (2) for reflection therefrom, and a filter (5) for spectrally splitting the reflected light prior to being received by said at least one sensor receiver (11).

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11. Sensor device (1), according to Claim 10, wherein said light source (6) includes a device for controlled alteration of its luminous intensity, depending on the distance of surface (2) from sensor device (1).